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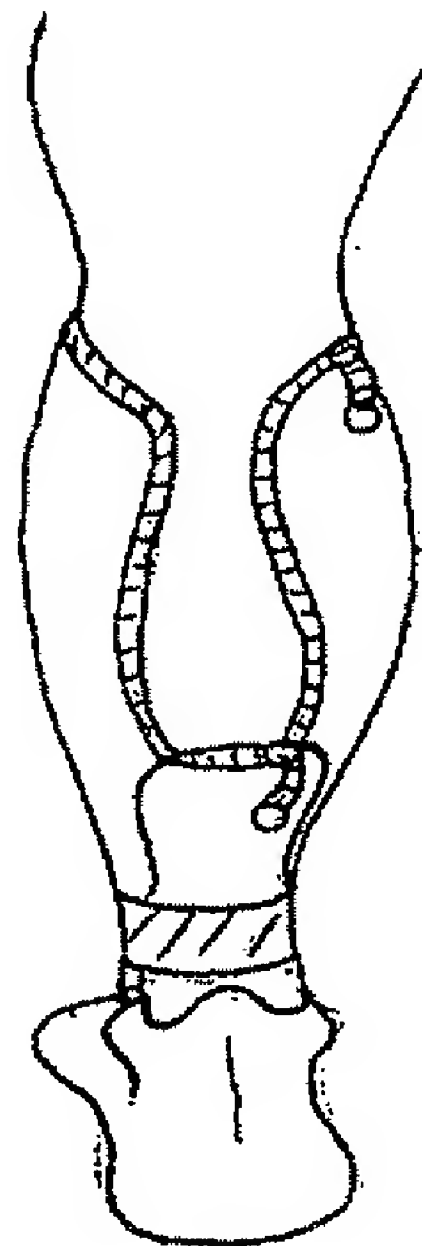
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(58) Field of Search  
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**INT CL<sup>7</sup> A41D 13/00 13/015 13/018 13/05 13/06 , A63B**  
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(54) Abstract Title  
**A lower leg protector**

(57) A two section lower leg protector provides protection to front, sides and rear of the lower leg, a first section protecting the front and sides and the second the rear. Each section is made of a hard carbon material with both sections preferably having an inflatable lining.  
Both sections are attached by a velcro (R.T.M.) strap.

**FIG 3**



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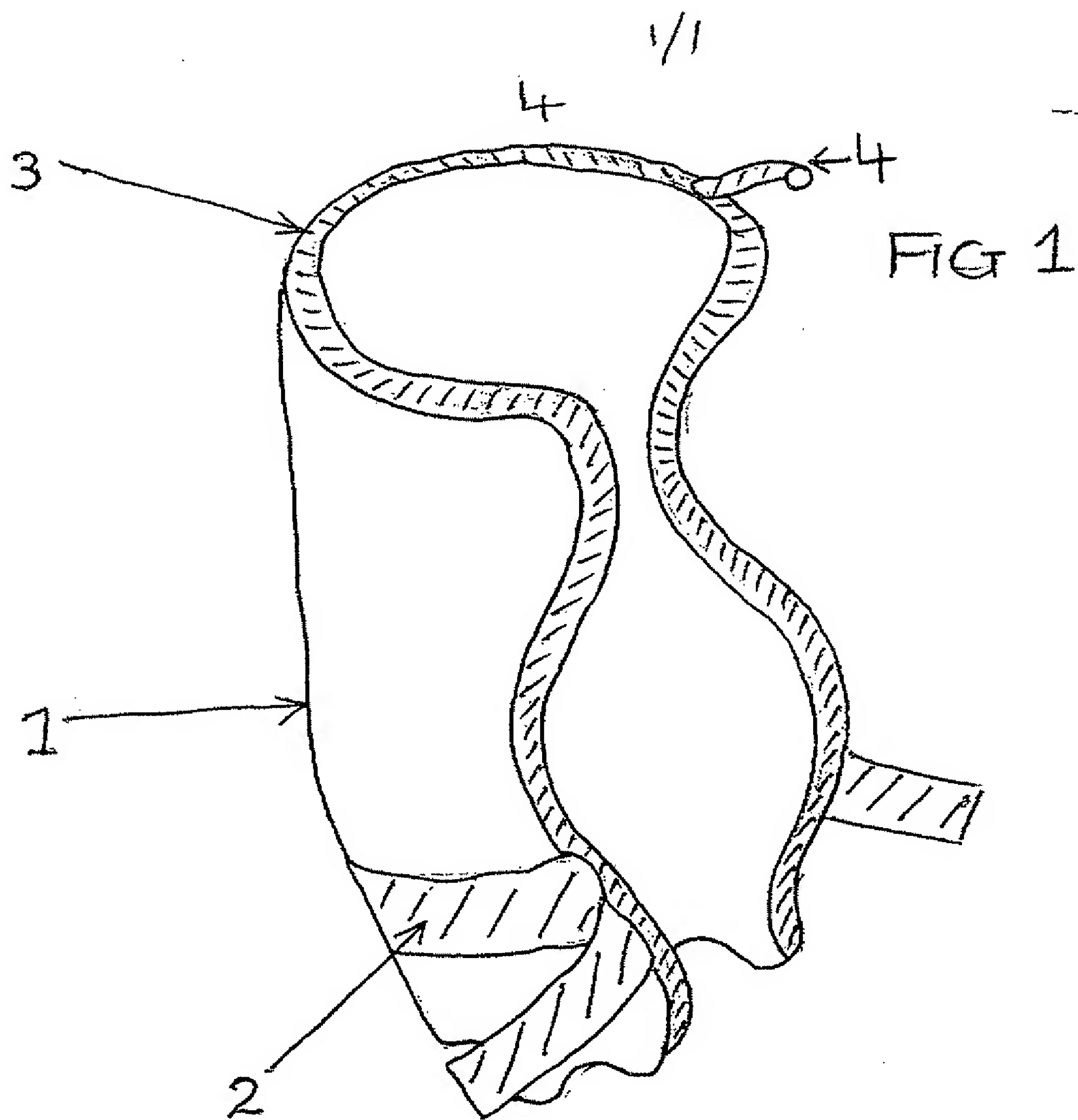


FIG 3

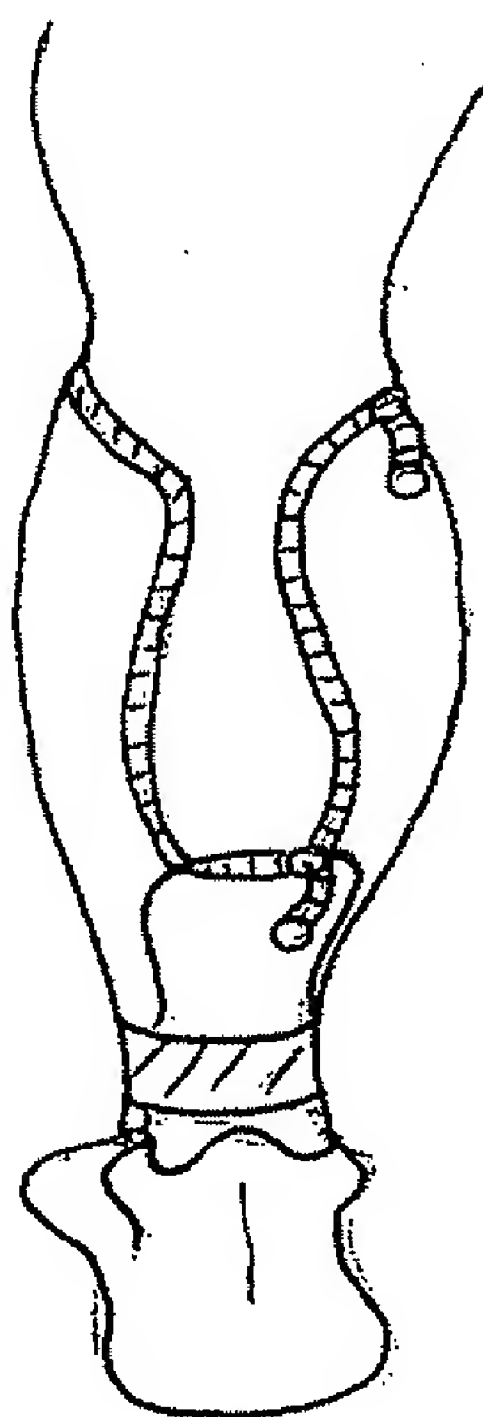
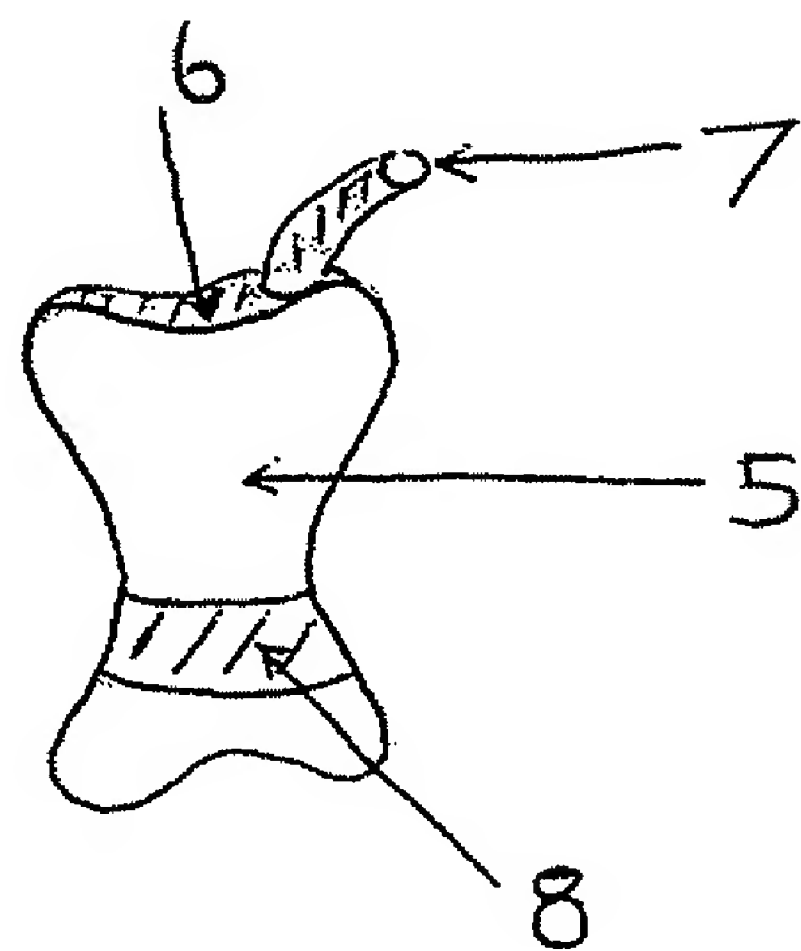


FIG 2



# A DUAL LOWER LEG PROTECTOR WITH INFLATABLE LINING

THIS INVENTION RELATES TO A DUAL LOWER LEG PROTECTOR WITH INFLATABLE LINING.

LOWER LEG PROTECTORS ARE USED EXTENSIVELY IN INDUSTRY AND SPORT.

VARIOUS ADAPTATIONS ARE AVAILABLE WITH VARIOUS MATERIALS USED TO PROVIDE BOTH THE HARD EXTERIOR AND SOFTER INTERIOR LINING.

PRESENT LOWER LEG PROTECTORS DO NOT COVER ENOUGH OF THE LOWER LEG SURFACE THEREFOR ALLOWING INJURY POSSIBILITIES TO OCCUR.

IN ADDITION TO THE SAFETY ISSUE, PRESENT LOWER LEG PROTECTORS CAN BE UNCOMFORTABLE DURING ACTIVE MOVEMENT.

ACCORDING TO THE PRESENT INVENTION THERE IS PROVIDED CARBON HARD OUTER SHELLS FOR A FRONTAL SECTION AND REAR SECTION OF THE LOWER LEG. EACH OF THESE OUTER SHELLS HAS A SMOOTH RUBBER LINING THAT CAN BE INFLATED WITH AIR THROUGH TUBES LOCATED AT THE TOP OF EACH SECTION OF THE PROTECTOR.

THE FRONT AND REAR SECTIONS OF THE PROTECTOR ARE JOINED TOGETHER AROUND THE LOWER LEG BY A VELCROS<sup>(R.T.M.)</sup> STRAP.

A SPECIFIC EMBODIMENT OF THE INVENTION WILL NOW BE DESCRIBED BY WAY OF EXAMPLE WITH REFERENCE TO THE ACCOMPANYING DRAWINGS IN WHICH.

FIG. 1 SHOWS IN PERSPECTIVE THE FRONT SECTION OF THE PROTECTOR WITH INFLATABLE INTERIOR LINING AND TUBE WITH VELCROS STRAPPING.

FIG 2 SHOWS THE REAR SECTION OF THE PROTECTOR. THIS CONSISTS OF A CARBON HARD OUTER SHELL, INFLATABLE LINING WITH INFLATION TUBE AND A VELCROS STRIP.

FIG. 3 SHOWS A REAR VIEW OF THE PROTECTOR WITH BOTH FRONTAL AND REAR SECTIONS ATTACHED TOGETHER BY THE VELCROS BAND.

REFERRING TO THE DRAWINGS, THE PROTECTOR COMPRISES FOR THE FRONTAL SECTION, A SHAPED HARD CARBON EXTERIOR 1. VELCROS STRAPPING ATTACHED TO THE CARBON EXTERIOR 2. AN INFLATABLE LINING 3 WITH INFLATION TUBE 4

A REAR PROTECTOR COMPRISES A SHAPED CARBON HARD EXTERIOR 5. AN INFLATABLE LINING 6. WITH INFLATION TUBE 7 AND A VELCROS ATTACHMENT 8.

## CLAIMS

1. A LOWER LEG PROTECTOR COMPRISING TWO SECTIONS EACH OF SHAPED HARD CARBON. THE FRONTAL SECTION PROTECTS THE FRONT AND SIDES OF THE LOWER LEG. THE REAR SECTION PROTECTS THE BACK OF THE LOWER LEG.
2. A LOWER LEG PROTECTOR AS CLAIMED IN CLAIM 1 WHEREIN INFLATABLE LININGS TO BOTH FRONT AND REAR SECTIONS CAN BE INFLATED TO SUIT INDIVIDUAL REQUIREMENTS BY TUBES PROVIDED TO BOTH SECTIONS
- 3 A LOWER LEG PROTECTOR AS CLAIMED IN CLAIM 1 OR CLAIM 2 WHEREIN THE PROTECTORS CAN BE ATTACHED TOGETHER BY USE OF VELCROS (R.T.N.) STRAPPING.